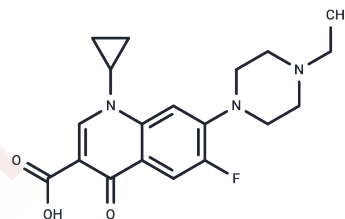


## Enrofloxacin

## Chemical Properties

CAS No. : 93106-60-6  
Formula: C<sub>19</sub>H<sub>22</sub>FN<sub>3</sub>O<sub>3</sub>  
Molecular Weight: 359.39  
Appearance: no data available  
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

Description	Enrofloxacin (BAY-Vp2674) is a veterinary antibacterial agent, used in poultry.
Targets(IC50)	Antibacterial,Antibiotic,DNA/RNA Synthesis
In vivo	Enrofloxacin exhibits broad-spectrum antibacterial activity against both Gram-negative and Gram-positive bacteria. It functions by inhibiting bacterial DNA gyrase (type II topoisomerase), thereby blocking DNA supercoiling and DNA synthesis.

## Solubility Information

Solubility	DMSO: 12 mg/mL (33.39 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7825 mL	13.9125 mL	27.8249 mL
5 mM	0.5565 mL	2.7825 mL	5.565 mL
10 mM	0.2782 mL	1.3912 mL	2.7825 mL
50 mM	0.0556 mL	0.2782 mL	0.5565 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

### Reference

- Qiu W, et al. Enrofloxacin Induces Intestinal Microbiota-Mediated Immunosuppression in Zebrafish. *Environ Sci Technol*. 2022 Jun 21;56(12):8428-8437.
- Chen Y, Zhu Y, Shen M, et al. Rapid and automated detection of six contaminants in milk using a centrifugal microfluidic platform with two rotation axes. *Analytical Chemistry*. 2019 May 24
- Kowalczyk P, Strzępa A, Szczepanik M. Perinatal treatment of parents with the broad-spectrum antibiotic enrofloxacin aggravates contact sensitivity in adult offspring mice. *Pharmacol Rep*. 2021 Apr;73(2):664-671. doi: 10.1007/s43440-021-00217-3. Epub 2021 Jan 22.
- Chen Y, Zhu Y, Shen M, et al. Rapid and automated detection of six contaminants in milk using a centrifugal microfluidic platform with two rotation axes[J]. *Analytical Chemistry*. 2019 May 24.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286    E\_mail:info@targetmol.com    Address:36 Washington Street,Wellesley Hills,MA 02481